DMAC	SMAC	Type/Length	LLC	SNAP	message	CRC
6B	6B	2B	3B	5B	variable	4B
01-80-C2-00-00-2F OR MAC address of local switch with I/G bit set	MAC address of local switch OR MAC address of the transmit port	Length of frame, i.e., 64 bytes	{AA,AA, 03}	{10, 00, 00, 00, 01}	a number of TLVs	The typical CRC value in FCS

FIG. 1

Command	Description
[no] loopdetect <portlist>	Enables or disables loop detection on port.
loopdetect resume <seconds>	Configures the timer interval after which a loop-detected port resumes operation. The value is 8 to (2^32-1) seconds.

FIG. 2

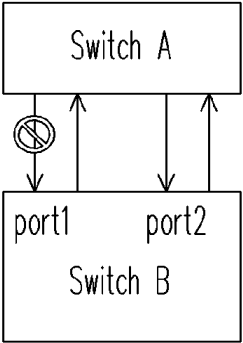| Command	Description
show loopdetect	Displays information about loop detection.
show port <portlist> detail	Display suspension reason due to loop detection.

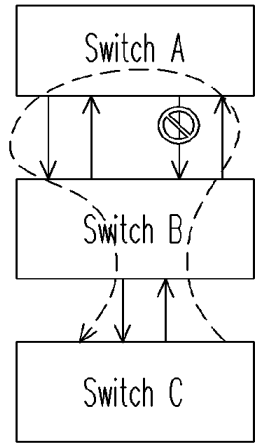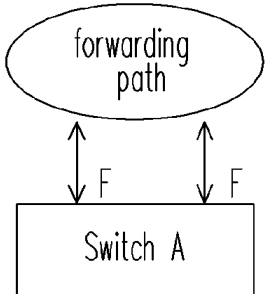FIG. 3

Switch A

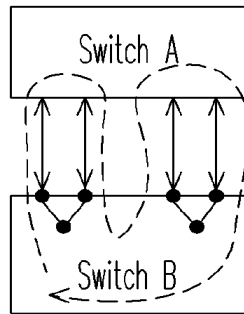port1   port2
Switch B

FIG. 4

Switch A

Switch B

Switch C

FIG. 5

forwarding
path

F   F

Switch A

FIG. 6

Switch A

Switch B

FIG. 7

Switch A

$\nu2$ $\nu2$ $\nu1$ $\nu1$

$\nu1$ $\nu2$ $\nu2$ $\nu1$

Switch B

FIG. 8

Router A

$\nu2$ $\nu1$

Router B

$\nu2$ $\nu1$

$\nu1$ $\nu2$ $\nu2$ $\nu1$

Switch C
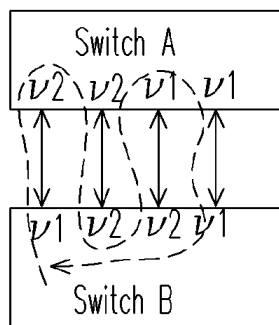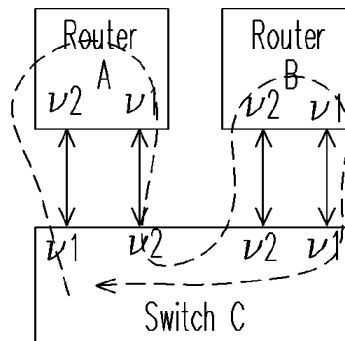
FIG. 9

● Terminator

Type	Length	Value
1B	1B	0B
0-terminator TLV	0-no value sub-field	Absent

FIG. 10

● Port Identifier

Type	Length	Value
1B	1B	4B
1-Port ID TLV	4-four bytes of value sub-field	Port Identifier of the sending port administered locally. It can be the ifIndex of the sending port, or the module/port notation of the sending port.

FIG. 11

● VLAN Identifier

Type	Length	Value
1B	1B	2B
2-VID TLV	2-two bytes of value sub-field	VLAN Identifier.

FIG. 12

● Switch Identifier

Type	Length	Value
1B	1B	6B
3-Switch ID TLV	6-six bytes of value sub-field	Globally unique identifier for the local switch. Presumably it is the MAC address in the STP bridge
		ID or of an L3 interface.

FIG. 13

● Timestamp

Type	Length	Value
1B	1B	4B
4-timestamp TLV	4-four bytes of value sub-field	Number of milliseconds since midnight on 1/1/1970.

FIG. 14

● Checksum

Type	Length	Value
1B	1B	N bytes
5-Checksum TLV	N-N bytes of value sub-field	A checksum to authenticate the frame. A switch can keep its authentication algorithm and key to itself.

FIG. 15